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ABSTRACT

The development of instruments to measure the attainment of career education objectives in the middle grades was the objective of this study. The procedures used involved the following tasks: analysis of career education objectives by a jury of vocational and industrial arts teachers; writing test items appropriate for evaluating learning in the cognitive, affective, and psychomotor domains related to the objectives; developing techniques for scoring the tests; and testing the instruments for validity and reliability. Since the objectives were pupil-centered and flexible it proved to be impossible to write objective items. The subjective nature of the test exposed an unanticipated problem of scoring, which was solved by the development of an explicit scoring key to be used by two independent scores. The final form of the test contains 25 self and work-related items calling for written responses and is to be used at the ninth grade level. The list of objectives sent to the judges, the revised list of objectives, the test, and the scoring key for the test are appended. (Author/EC)

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#### Final Report

Project No. 2-D-024
Grant No. 0EG-4-72-0010

THE DEVELOPMENT OF AN EVALUATION SCHEME FOR CAREER EDUCATION IN THE MIDDLE GRADES

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August 20, 1973

The research reported herein was performed pursuant to a grant with the office of Education, U.S. Department of Health, Education, and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their professional judgment in the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Office of Education position or policy.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Office of Education / National Institute of Education

### Author's Abstract

An evaluation scheme for career education in the middle grades was originally conceived as a project to develop the objectives of career education in the middle grades and to evolve an evaluation program that would measure these objectives. Although the original intent was to develop an objective test, the final outcome resulted in a subjective instrument.

A list of objectives yas developed and submitted to a jury representing vocational and industrial arts leaders. The analysis of the jury response resulted in the objectives upon which the test was based.

Test items were written to evaluate attainment in each of the career objectives. The pupil-centeredness and flexibility of the objectives, however, rendered it impossible to write objective items; thus, the test became a subjective one.

The subjective nature of the test exposed a problem of scoring that had not been anticipated. A scoring key giving explicit instructions for evaluating each item was developed and was tested by having two different scorers grade two sets of tests. The correlation coefficients of .93 and .83 which resulted, reflected excellent agreement between scorers in light of the subjective nature of the test.

The evaluation instrument that resulted from the project can have excellent application in evaluating programs with objectives compatible with those used in the development of the test. Its major weakness lies in the laborious task of scoring, but one deems the extra labor worthwhile when he considers that the instrument measures the success of a flexible program aimed at helping pupils understand themselves as they relate to the world of careers.



Final Report

THE DEVELOPMENT OF AN EVALUATION SCHEME FOR CAREER EDUCATION IN THE MIDDLE GRADES

An evaluation scheme for career education in the middle grades was originally conceived as a project to develop the objectives of career education in the middle grades and to evolve an evaluation program that would measure the attainment of these objectives. The evaluation scheme as broadly conceived; very few preconceived ideas concerning evaluation procedures entered into its formation. It was hoped, however, that at least one portion of the evaluation scheme would be an objective test that could be scored and analyzed by computer. To some extent, these expectations were not fully realized, but the overall success of the project was most rewarding.

Statement of the problem. The problem to which this proposal was directed was the development of instruments to measure the attainment of objectives of career education. The task involved validating career education objectives; selecting and developing instruments appropriate for evaluating learning in the cognitive, affective, and psycho-motor domains; developing the instruments; developing techniques for scoring the tests; and testing the instruments for validity and realibility.

Norms were to have been established in order that comparisons could be made to determine if experimental groups experienced achievement in access to that of control norms. These norms were to be established for the various grade levels within the middle grade program for pupils

enrolled in programs of career education. The following were the objectives of the study:

- 1. To validate the objectives of career education for the middle grades.
- 2. To identify the evaluation scheme appropriate for use with middle grade career education.
- 3. To identify instruments appropriate for measuring objectives determined in objective 1.
- 4. To administer these instruments to sample populations in both experimental and control groups and/or administer these instruments as pre-tests and post-tests in order to obtain data necessary for reliable validity checks.
- 5. To revise instruments in order to improve reliability and validity.
- 6. To administer revised instruments and to test for reliability and validity.
- 7. To field test the instrument through actual application in all available situations.
- 8. To analyze data and thereby evaluate the instrument.

Assumptions. At the beginning of the project, it was assumed that if behavioral objectives could be identified, an objective test could be developed. It was further assumed that the test could be scored by computer. While both of these assumptions may be valid, time and resources were not adequate to carry the test development to that point.

Procedure. The project proposal identified six task areas. Task

One consisted of validating objectives of career education. The objectives

listed in the project proposal were expanded, and a form was developed

to be submitted to a jury for validation (a copy is presented in Appendix

A). Simultaneously, a postcard questionnaire to identify people willing

to serve on the jury was developed and sent to 81 teacher educators,

supervisors, or project personnel who were involved with career education

at the middle grade level. Table 1 indicates that of 81 cards sent,



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68 or 83.9% were returned. Of these 68 returned, 65 indicated that they would be willing to serve.

TABLE 1

REQUESTS TO SERVE ON THE JURY

Number of	, Numbe	r Returned	Percent
Cards Sent	Yes No	Total	Returned
81	65 3	68	83.9%

Table 2 indicates that the objectives of the validation forms were sent to the 65 educators who had indicated their willingness to serve on the jury. Forty-eight or 73.8% returned the objective validation forms. Responses were analyzed, and the objectives were revised.

TABLE 2
OBJECTIVE VALIDATION FORM RETURNS

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Number of	/ Number	Percent
Forms Sent	/ Returned	Returned
65 A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.	48	73.8%

The frequency of jury responses under the four categories, Most Important, Important, Less Important, and Not Important, is shown in Table 3. A value of four was given to the highest rating, Most Important; and values of three, two, and one were given to Important, Less Important, and Not Important, respectively. The frequency of responses was multiplied by the numerical value, thus giving a total numerical value for each item; this value was divided by the number of responses to determine a mean value for each item. Items having a mean value of less than three were considered to be less than Important and were eliminated from the list.

#### JURY RESPONSE TO THE OBJECTIVES

7					7
Objective	'Most	Important	Less	No t	_Mean -
<del></del>	Important		Important	Important	Value
\	٠				
1	23	17	6	1/	3.319
2	13	22	· 9 .	3/3/	2.976
- 3	13	<b>`23</b>	9	HE)	3.000
4	8	<b>20</b>	13/	5	2.617
5	15	14	15	4	2.8 <del>33-</del>
6	16	23 - ,~	8	1	3.125
7	16	21	8	1 3	3.042
8	5	17/	23	3	2.500
. 9	14	19	14	1	2.958
10	4	26-	14	. 4 .	2.625
11	· 31 ~	15.	1 '	1	3.583
12	22	23	3 /	0	3.396
13 .	14	. 14	15/	5	2.771
14	26	15	7	0 -	3.396
-15	9	,24	/14 -		2.854
16	17	26	1	1	3.229
17	·/ 26	19	1	0 .	3.458
	<u>'</u>			J	3.430

A number of the jurors made comments concerning various objectives; these comments were considered and used in revising or rewriting the objectives. The following is the revised list:

- 1. The pupil will demonstrate his comprehension of his aptitudes by describing the kinds of career activities that would provide him with satisfying and meaningful employment.
- 2. The pupil will demonstrate knowledge of self-appraisal by describing techniques for collecting and analyzing information about himself.
- 3. The pupil will demonstrate his comprehension of work by describing it in terms of the responsibility of the worker to the employee, by describing it as opposed to play, and by describing it as a regularly scheduled activity.
- 4. The pupil will apply knowledge of the changing nature of work by developing a tentative plan of continuing study for a career of his choice that will make it possible to keep up with developments in that career area.
- 5. The pupil will manipulate tools and materials and engage in processes related to occupations in his areas of interest.

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- 6. The pupil will demonstrate his comprehension of the need for an education by describing the values of education to occupational areas that are of special interest to him.
- 7. The pupil will analyze the role work plays in the life of man and how an individual's attitudes about work affect other aspects of life by identifying, analyzing, and discussing, examples of forces at work in the world of work.
- 8. The pupil will demonstrate his comprehension of the importance of the diversity of talents found in individuals by discussing the significance of this diversity as it relates to the world of work and as it relates to his assets and limitations.
- 9. The pupil will demonstrate his comprehension of his educational needs by planning a series of learning experiences that will lead to his chosen line of work.

Task Two consisted of the identification of evaluation techniques appropriate for this kind of evaluation. No appropriate techniques or instruments were found to be in existence, and it was decided that the first step should consist of developing a paper-and-pencil test to measure the attainment of each of the nine objectives in the revised list. While other types of evaluation techniques might be appropriate, time and the lack of materials and resources made it impossible to pursue any of the other possibilities.

Original efforts in test construction were centered around the writing of items that could be marked on an IBM answer sheet. It was soon discovered that the complexity and flexibility of the objectives made it virtually impossible to write good items and that open-end questions would have to be utilized in order to accommodate the varying interests of students. To accomplish this end, the objectives were subdivided into more specific terms, and items were written for each sub-objective. Analysis of the items later revealed that this process had resulted in some duplication which had to be removed. Appendix B shows this list of expanded objectives.

An open-ended test was developed and administered to a pilot group of 15 tenth grade students who had had career education in the ninth grade. After the project director and test consultants had reviewed the responses on these tests, the group was interviewed and asked to react to the instrument. Many confusing points were identified, and the revised instrument (Appendix C) ensued.

A number of tests sites throughout the United States were identified, and copies of the test were sent for administration. Many of those who had agreed to help test the instrument did not follow through with any kind of response, and some who responded indicated that the test was too difficult. Comments and observations convinced the project director and others involved that the test would serve better as a terminal achievement test rather than as an instrument to measure behavioral change. It was further concluded that this instrument should be used at about the ninth or tenth grade level, for it was at this level that the greatest degree of success was experienced and upon which further analysis was based.

A problem connected with the scoring of a test such as the one developed is identifying a method by which two or more scorers will come out with similar results. A scoring key, identifying the kinds of responses to look for and some of the pitfalls the scorer might find, was developed and used by different scorers. The scoring key (Appendix D) was used on two sets of tests scored by both the test development consultant and the project director to determine the similarity in scores. The first set of test scores consisted of 25 tests administered to ninth grade students during the first part of the second semester of that year. The scoring key was carefully used to score the items, from the total test scores computed, a correlation coefficient was determined. The coefficient of .93 which was revealed seemed to be much higher than that which had been

- 7

expected, but verification supported the findings. An item-by-item comparison of the scores, however, revealed considerable discrepancy between total scores and those scores awarded to some individual items.

Because one score was higher on some items while the other score was higher on other items; the total resulted in a high correlation:

The scoring key was further analyzed to determine the effect of the instructions on the scores awarded and was revised to produce more uniformity of total scores for individual items.

A second administration of the test to 15 ninth grade students at the end of the school year was used to check the revised scoring key.

The correlation coefficient of total scores for this group was .83, which was still quite acceptable and within the range that had been originally anticipated. Again, an item-by-item analysis was made, and it was found that there was consistency in total item score differential rather than the degree variance found in the previous administration. Although there may still be room for improvement in the scoring key, the agreement between scorers is excellent in light of the subjective nature of the test.

Recommendation for Further Research. It is still the opinion of the researcher that an objective test, using the subjective test as a base, can be developed. This task will require the combined efforts of many specialists and considerally more funds than were available for the current project.

In addition, procedures need to be worked out to utilize fully the instruments that have been developed and to evaluate further the reliability of scoring. Tests will be made available to persons desiring to use them, and an effort will be made to follow up on scoring data:

Conclusions. The following general conclusions concerning the project should be emphasized at this point.

- 1. Within the time and limitations of the project, it was not possible to develop an objective test based on the objectives that resulted from the project.
- 2. The development of career education objectives for the middle grades clearly indicated that vocational and industrial arts educators feel that objectives should be flexible, should introduce and orient the student to careers compatible with his talents, and should meet individual needs.
- 3. A subjective test that could be used at the ninth grade level to measure the attainment of the objectives was developed. The major drawback to this instrument, however, is the difficulty in grading it.

APPENDIX A

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16. The pupil will demonstrate his comprehension of the importance of the diversity of talents found in individuals by discussing the significance of

this divorsity as it relates to the world of work.

The pupil will interpret the importance of the various talents of individuals in terms of their significance to the world of work.

17. The pupil will demonstrate his comprehension of his educational needs by describing them in terms of his future work as he perceives it.

The pupil will interpret his knowledge of his educational needs in terms of his future work

	Most Importan
_	Important .
	Less Importan
	Not Important

CAREER EDUCATION OBJECTIVES
FOR
GRADES SIX THROUGH EIGHT

Please rate each of the following objectives by marking an "X" in the box corresponding to your choice. Space is provided at the end of this instrument for any additional objectives you might want to add or they may be attached. Your comments are also welcomed.

The scheme for writing objectives used here provided for clear identification of the behavioral domain (cognitive, affective, or psychometer) for which the eljective is written and the level of performance within that domain. This is explained in italics following each objective.

Importan

Not Important

meaningful employment.	vitios that wou	aptitudos by do	The pupil will	•
,	vities that would provide him with satisfying and	aptitudes by describing the kinds of career acti-	The pupil will demonstrate his comprehension of his	
`		roor acti-	paicn of his	

Comprehension indicates cognitive behavior in which he will interpret, translate, or summarise his knowledge of his aptitudes.

 The pupil will demonstrate his knowledge of his own attainment level by describing occupations that are within his level of attainment.

To have knowledge involves the lowest level of cognitive behavior in which the student will recognize or recall facts.

. The pupil will demonstrate knowledge of selfappraisal by describing techniques for cellecting and analyzing information about himself.

The pupil will demonstrate obgnitive behavior by recalling appraisal techniques.

The pupil will demonstrate knowledge about careers by describing the qualifications, duties and rewards of a minimum of one job from each of the fifteen clusters identified by the U. S. Office of Education.

The pupil will equal facts about qualifications, duties, and rewards of careers.

. .

able positions. of jobs for which there are likely to be few avail the job market in his locality by describing it The pupil will demonstrate his comprehension of in terms of jobs with employment potential and

The pupil will interpret the local job market as it relates to the availability of jobs.

opposed to play, and work as a regularly schebility of the employer to the worker, work as The pupil will demonstrate his comprehension of duled activity. work by describing it in terms of the responsi-

The pupil will interpret his knowledge of work of the categories listed.

The pupil will apply knowledge of the changing make it possible to keep up with developments uing study for a career of his choice that will in that caroor area. nature of work by developing a plan of contin-

At the application level of the cognitive from the situations in which it was originally learned to each situation which is different domain, he will apply the material he has

would least like to have, choice, the one job from each cluster that he tunities by identifying, giving reasons for his The pupil will value various employment oppor-

single polief or attitude in situations where To value indicates affective behavior in which the learner displays behavior consistent with a he is not forced to comply.

tunities by identifying the one job from each The pupil will value various employment opporclearly indicating the characteristics of this cluster that he would most like to hold and job that he would find satisfying.

The pupil will indicate his balief or attitude of jobs: in terms of his own salf-concept.

•		<b>\</b>	×3	
 		,	_	~
-				Most Important
				.Important
			/ <sup>°</sup>	less Important
				Not Important
	, · .		/	
		•	į,	

of 1 to 10. The pupil will display a value of the jobs he most likes and least likes by ranking them on a scale

Important

. 당

by ranking tham, Ib will indicate his attitude toward certain jobs

The pupil will manipulate tools and materials and ongage in processes related to occupations in his areas of interest.

12. of education to occupational areas that are of The pupil will demonstrate his comprehension of the need for an education by describing the values. degree of skill beyond imitation is developed. Manipulation is a psychomotor behavior in which

The pupil will interpret facts concerning values of education as they relate to career areas of interest to him.

apocial interest to him.

<u>۔</u> The pupil will demonstrate value for jobs by he previously indicated as being beneath his mont requirements, and working conditions of jobs listing outstanding contributions, needs, employ-

The pupil will display affective tudes, toward certain jobs. bahavior, atti-

about work affact other aspects of life by iden-The pupil will analyze the role work plays in the tifying, analyzing and discussing examples of these life of man and how an individual's attitudes forces at work in the world of work.

the separating of a complex entity into its part and drawing opeparisons and relationships betweentha dlamonta. To analyze requires cognitive behavior involving

15. oribing the various steps involved. developmental tasks of choosing a career by des-The pupil will demonstrate his comprehension of the

The pupil will paraphrase and interpret the various stops involved in the developmental tasks of choosing

APPENDIX B



# REVISED CAREER EDUCATION OBJECTIVES FOR GRADES SIX THROUGH EIGHT

- 1. The pupil will demonstrate his knowledge of self-appraisal by applying one technique to record information about himself which he will then relate to a career choice.
  - 1.1 The pupil will identify one self-appraisal technique.
  - 1.2 The pupil will apply a selected self-appraisal technique by recording three items of information about himself.
  - 1.3 The pupil will relate the above information (1.2) to a career choice which he believes would be satisfying and meaningful to him.
- 2. The pupil will demonstrate his comprehension of his personal characteristics by describing the kinds of career activities that would provide him with satisfying and meaningful employment.
  - 2.1 The pupil will list three careers that he believes could provide him with the most satisfying and meaningful employment.
  - 2.2 The pupil will list three personal characteristics he believes he possesses which will suit him to each of the careers previously listed.
  - 2.3 The pupil will list the two careers he would find least satisfying.
  - 2.4 The pupil will list three personal characteristics he believes he possesses which would conflict with each of the careers he would find least satisfying.
- 3. The pupil will demonstrate his comprehension of work as a regularly scheduled activity by describing it in terms of the responsibility of the employer to the worker, responsibility of the worker to the employer, and work as opposed to play.
  - 3.1 The pupil will list and explain three important responsibilities of the employer to the worker.
  - 3.2 The pupil will list and explain three important responsibilities of the worker to the employer.
  - 3.3 . The pupil will explain three differences between work and play.

- The pupil will apply knowledge of the changing nature of work by developing a tentative plan fo continuing study for a career of his choice that will make it possible to keep up with developmments in that career area.
  - 4.1 The pupil will list three significant characteristics of the changing nature of work.
  - 4.2 The pupil will apply the characteristics of the changing nature of work by identifying steps that should be taken to keep up-to-date in a career of his choice.
- 5. The pupil will demonstrate his comprehension of the need for an education by describing the values of education to occupational areas that are of special interest to him.
  - 5.1 The pupil will list three educational and/or training requirements for a career of his choice.
  - 5.2 The pupil will analyze educational and/or training requirements for a career of his choice by stating the reasons for educational/training needs for that particular career.
  - 5.3 The pupil will demonstrate knowledge of sources and/or training for a career of his choice.
- 6. The pupil will analyze the role work plays in the life of man and the effects of an individual's attitudes about work on other aspects of life by identifying, analyzing, and discussing examples of these forces at work in the world of work.
  - 6.1 The pupil will demonstrate his knowledge of the role work plays in the life of man by listing three major aspects.
  - 6.2 The pupil will demonstrate his comprehension of the role work plays in the life of man by describing an important effect of each of the above mentioned major aspects on man's life.
  - 6.3 The pupil will demonstrate his knowledge of attitudes about work that affect other aspects of man's life by stating three such attitudes.
  - 6.4 The pupil will demonstrate his comprehension of the effects attitudes about work have on other aspects of man's life by describing an important effect for each of the three attitudes mentioned above.
  - 6.5 The pupil will analyze the role work plays in the life of man by relating the following to a career of his choice:
    - (1) three effects of the role of work in man's, life and
    - (2) three effects of his attitude toward work.

- 7. The pupil will demonstrate his comprehension of the importance of the diversity of talents found in individuals by discussing the significance of this diversity as it relates to the world of work and as it relates to his assets and limitations.
  - 7.1 The pupil will demonstrate his knowledge of self by listing three of his talents that have career potential.
  - 7.2 The pupil will translate the diversity of his talents by naming two career opportunities possible for each of the three talents mentioned above.
  - 7.3 The pupil will demonstrate knowledge of his lack of talent by identifying one limitation that would hinder him in a career of his choice.
  - 7.4 The pupil will translate the above mentioned limitation by stating two reasons why it would hinder him in a career of his choice.
  - 7.5 The pupil will explain how the diversity of talent is related to the world of work.
- 8. The pupil will demonstrate his comprehension of his educational needs by planning the steps that will lead to a career of his choice.
  - 8.1 The pupil will demonstrate his knowledge of requirements for a career of his choice by listing three educational or training requirements.
  - 8.2 The pupil will demonstrate his knowledge of the preparatory requirements for entering a career of his choice (1) by giving the title of the educational or training program, (2) by mentioning an institution offering such a program, (3) by specifying the length of learning time required, and (4) by estimating the total cost of an educational or training program.
- 9. The pupil will manipulate tools and materials and engage in processes related to occupations in areas of his interest.
  - 9.1 The pupil will identify two occupations that are of interest to him.
  - 9.2 The pupil will list the most common tools, materials, and processes that are related to each occupation and that can be performed in a school career education facility.
    - 9.3 The pupil will demonstrate and/or explain the use of a minimum of two tools as applied to materials and processes in each of the occupations chosen.

APPEND X C

# E.C.U. Career Education Test

Developed by: Dr. William R. Hoots, Jr.

School of Technology East Carolina University Greenville, North Carolina

Special Consultant: Dr. Norman C. Pendered

School of Technology

East Carolina University

To the student: This is a test on some of the things you may have learned in your Career Education classes.

The score you make on this test will NOT become a part of your grade or your student record.

The test is designed to help you find out just where you are at this time in making a choice of a life's career. The results of the test may also be useful to your teachers in helping them improve their courses in Career Education.

Perhaps at this time you are not ready yet to make a choice of career. Maybe you have some fears, doubts, misgivings, and uncertainties about yourself and about some of the careers in which you are interested. For your to experience these feelings is understandable and quite normal. BUT - for purposes of this test - do the best you can in answering the items. When a question asks you to identify a career choice - either of great or of no interest to you - base your decision on how you feel and what you know at this particular time.

This test is probably somewhat different from other tests you may have taken in school because many of the items relate to YOU. Some of the questions will be easy for you to answer; some will be more difficult. Each question will cause you to think! There are 25 items in this test. Be sure to read each question carefully; then answer each one.

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	Most people possess certain personal traits or characteristics which conflict with or interfere with careers which are LEAST SATISFYING to them. For each of the careers mentioned in item 6, list THREE personal characteristics that you possess which you feel would conflict with these careers.
	Career 1 (from item 6):
	My personal characteristics which might conflict with this career are:
•	(1)
	(2)
,	(3)
•	Career 2 (from item 6):
•	My personal characteristics which might conflict with this career are:
	.(1)
	(2)
; <sub>;</sub> .	. ;(3)
/	
8.	Although some kinds of work are fun to some people, there are big differences between work as opposed to play. Give THREE differences between work and play.
.•	(1)
-	(2)
	(3)
9.	Working involves more than coffee breaks, pay day, vacation leave, sick pay, and just putting in time day after day. Each worker has certain responsibilities to his employer, and, in return, the employer has certain responsibilities to his workers.
<i>'</i>	A. What are THREE important responsibilities of an employer to his workers?
· • ,	(1)
• .	(2)
	(3)

:

B. What are THREE important responsibil employer?	lities of a worker to his
(1)	
(2)	
(3)	
(3)	4
The world and all its people are constantly clock change applies also to the world of work. List or features of the changing nature of work:	hanging. This constant st THREE characteristics
(1)	
(2)	,
, (3)	
. Work plays an important role in the life of m that work does for man?.	an. What are THREE things
(1)	
(2)	7
. (3)	
7	
In item 11 you identified three things which question, you are asked to relate each of the	work does for man. In this
your choice. In other words, what effect do	you think each of these roles
which work plays in the life of man could hav are interested?	e on a carter, in which you
TE T more alon	
then the role which work plays in t	tle of career here) the life of man as I described
. it in item 11, part (1), might affe	ect my career or life as follow
e.Pi.	
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	•••			(ti	rrie oi	career-	may be s	ame or	diffe	rent i	from .	above
		•	then th	errole	which w	work pla	ys in th	e life	of man	ı as I	[ des	cribe
			it in i	tem 11,	part	(2), mig	ht affec	t my ca	areer d	or lii	fe as	foll:
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		C.	If I we	ere a/ar		_						
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		•	then th	e role	which w	work pla	ys in th	e life	of mar	ı as l	[ des	cribe
	•		it in i	item 11,	, part	(3), mig	ht`affed	t my ca	areer o	or lif	fe as	fọ11
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3.	certa	in at	ve attit titude tood h	toward	the war	erything r in Vie	. For e	xample oward	a per	cson w	vill be sex	nave a
3.	certa towar One c	in at d the an al	titude food h	toward ie eatş! : an att	the was	r in Vie toward w	t-Nam, t	oward a	the opposite the contract of t	osite ink ar	e sex	or me of
3.	certa towar One c	in at d the an al ttitu	titude food h so have	toward ne eatş! e an att nt∜man h	the was	r in Vie	t-Nam, t	oward a	the opposite the contract of t	osite ink ar	e sex	or me of
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,	certa towar  One c the a in th	in at d the an al tiitue spa (1)_ (2)_ (3)_ atti	titude food h so have ides tha ices bel	toward ne eats! e an att dwman h .ow:	the wa	r in Vie	ork. Wh? Ident	at do y	ome of	nk ar	e sex	or ne of itude
,	certa towar  One c the a in th  Man's or as	in atd the an all tiltue spation (1)_(2)_(3)_ attipuects	titude food h so have des tha ces bel	toward he eats! an att man h .ow:  ward hi s life.	the ward in the wa	toward ward work	ectly af	at do y ify THI	ome of	nk ar these	e sex	phase
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•	One c the a in th  Man's or as menti	in atd the an all titue spation (1)_(2)_(3)_attipects oned have (1)_	titude food h so have ides tha ices bel  tude to of his in item	toward ne eats! e an att twman h .ow:  ward hi s life. n 13, br	the ward toward	can direct on	ectly after import	at do y ify THI fect so udes to ant eff	ome of	nk ar these	e sex	phase
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4.	One c the a in th	in atd the an all titue spation (1)_(2)_(3)_attipects oned have (1)_	titude food h so have ides tha ices bel  tude to of his in item	toward ne eats! e an att twman h .ow:  ward hi s life. n 13, br	the ward toward	can direct on	ectly after import	at do y ify THI fect so udes to ant eff	ome of	nk ar these	e sex	phase
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15.	A talent is defined as an unusual mentage and it is a spectage particular kind of work.	al capacity, ability, skill, or cial gift that fits you for a
	Think about your special talents; then feel have career potential.	, list THREE of them which you
•	(1)	
	(2)	
•	(3)	
	For each of the special talents that you TWO possible career opportunities which	
	Special or Personal Talent	. Possible Careers
	1	lA 🙊
	,	1B
• .	2	2A
		2B
	3.	3A
		·
	,	38
		3B
17.	No one is perfect! Lack of talent is choice which you have in mind, identify weakness, limitation, or lack of talent you from being successful in this care.  Career choice:	evident everywhere. For a career y in the space below ONE personal that you possess which would keep er.
17.	choice which you have in mind, identify weakness, limitation, or lack of talenty you from being successful in this care.  Career choice:	evident everywhere. For a career y in the space below ONE personal that you possess which would keep er.
17.	choice which you have in mind, identify weakness, limitation, or lack of talent you from being successful in this care.  Career choice:  Personal limitation or lack of talents.	evident everywhere. For a career y in the space below ONE personal that you possess which would keep er.
17.	choice which you have in mind, identify weakness, limitation, or lack of talenty you from being successful in this care.  Career choice:	evident everywhere. For a career y in the space below ONE personal that you possess which would keep er.
17.	choice which you have in mind, identify weakness, limitation, or lack of talent you from being successful in this care.  Career choice:  Personal limitation or lack of talents.	evident everywhere. For a career y in the space below ONE personal t that you possess which would keep er.
	choice which you have in mind, identify weakness, limitation, or lack of talenty you from being successful in this care.  Career choice:  Personal limitation or lack of talenty.  Why do you think the above limitation we have a successful in this care.	evident everywhere. For a career y in the space below ONE personal t that you possess which would keep er.  alent:

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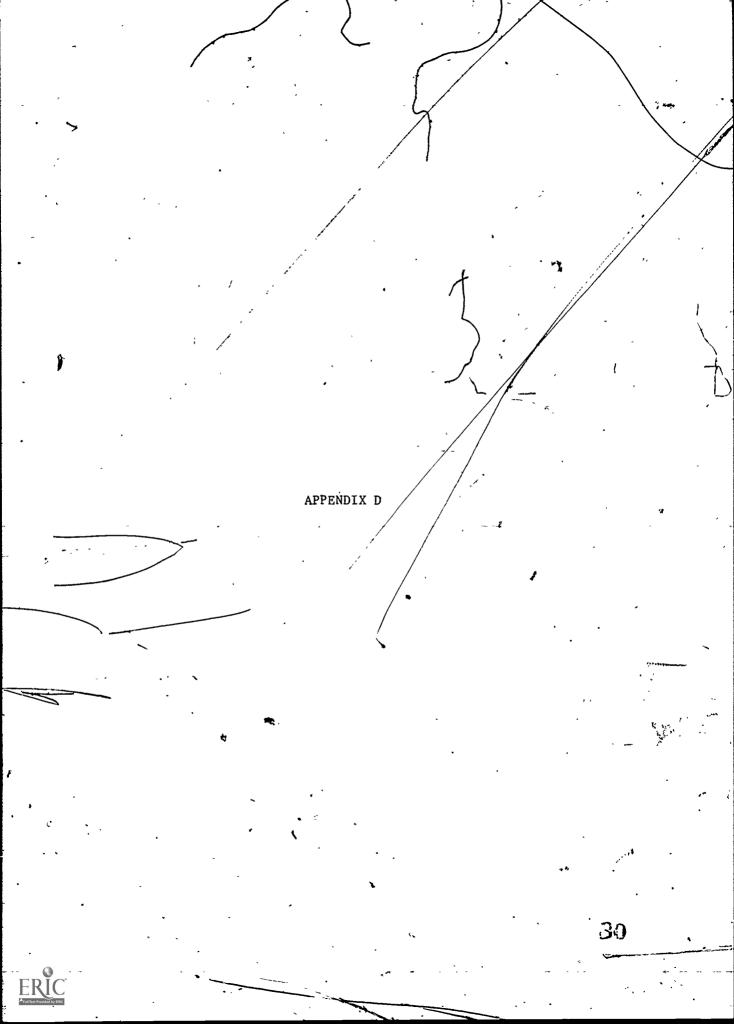
which individuals p quality of man.	Ss. Talents in	o the special gifts or talents individuals differ as much as
	, briefly explain how viduals are related t	these tremendous differences o the world of work.
	<u> </u>	
• ,		
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career. In the sp then <u>list THREE</u> ed	ucational and/or train	ning requirements for this car
Career totale	ucational and/or trai	ning requirements for this car
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Career total  Educational	ucational and/or training requirements	ning requirements for this car
Career that le  Educational  (1)  (2)  (3)  It is obvious that to enter a given of	ucational and/or training requirements of the second secon	rements:  training is valuable and necessors for the training
Career tetle  Career tetle  Educational  (1)  (2)  (3)  It is obvious that to enter a given conducational requirements.	education or special areer. So, there are ements which have been the surgement is necessary	rements:  training is valuable and necessors for the training



	Reduirement 2 is necessary of important because
•	422.
•	
	Requirement 3 is necessary or important because
	,
22.	Assume that you are really serious about pursuing this career (the one you selected in item 20). Now answer the following questions about it.
	(1) What would the title be for the educational or training program you would need to enter?
	Title:
	(2) Can you mention ONE school, institution, or place that offers this program?
	(3) How long is the learning time for this career?
	years months
	(4) Approximately what is the total cost of this entire educational or training program?
	\$
23.	Keeping in mind that the world of work is always changing, list THREE steps you should take or things you should do to keep up-to-date in the career you selected.
	(1)
	(2)
	(3)
	`~'



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	(2) List occup	FIVE commonation.	on tools, i	naterials,	or proces	ses used	in this
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5. Sele	et any TWO o	of the abo	ve-mention	ed tools a	ınd briefly	y <u>explain</u>	how to
<u>use</u>	them.		-	,		•	
	Tool #1 (r	ame of to	ol)				· —
÷ ,	How to use	: <b>:</b>			· · · · · · · · · · · · · · · · · · ·		
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• -	✓ Tool #2 (r	lame of to	01)	• • • • • • • • • • • • • • • • • • • •			· · · · · · · · · · · · · · · · · · ·
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#### SCORING KEY FOR CAREER EDUCATION TEST

Developed by: Dr. William R. Hoots, Jr.

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Special Consultant: Dr. Norman C. Pendered

School of Technology East Carolina University

# General Guide for Scoring:

l. Try to capture the thought or idea the student is endeavoring to present. For example, if a student says he wants to be a plummer or sturdlst, these may appear to be meaningless student responses. However, with a little patient understanding, the scorer sees them as plumber and stewardess which are perfectly acceptable responses! So, DISREGARD SPELLING, WEAK GRAMMATICAL CONSTRUCTION, AND INCORRECT PUNCTUATION. Although these things are important, these do not represent the objectives which this instrument was designed to measure.

2. Attempt to decipher poor handwriting in an effort to group the intent of the student. However, if the meaning is still unclear after a third rereading, mark the response incorrect and move to the next item.

3. All of the above is to say that the mechanics of the response should be ignored in favor of the <u>obvious</u> spirit or intent of the student's answer. BUT, do not give the student credit for something he has not stated. Do not read into his answer implied meanings which are not really there.

4. Do not score each student's test paper individually from item 1 through 25.

Experience has shown that the scoring is more reliable and that it is actually easier to score a set of test papers if the same item (or group of related items) is scored for the first student, for the second student, and so on. The scorer then returns to the next item (or group or related items) and scores it (them) for the first student, for the second student, and so on. This procedure is followed until all items have been scored for all students.

The recommended plan for scoring items in this test is as follows;

1, 2, and 3	15
4 and 5	16
6 and 7	' 17 and 18
8	· 19
9A and 9B.	20, 21, and 22
10 • •	23.
-11, -12A, 12B, and 12C	24 and 25
13 and 14:	
	The state of the s

Note; Score items 1, 2, and 3 (as a group) for each student.

1. Value: 1 point

Answer must specify a way of tearning about oneself, for example:

By reading (books)

By talking to teacher/s or guidance counselor

By taking tests, interest inventories, personality sheet

By doing something (manipulative activity or homework)

By school report cards

2. Value: 1 point each correct response

Total possible points: 3

3. Value: 3-2-1-0 points

3 points - Answer must mention a specific career title.

Answer must relate information from item 2 to the career mentioned.

Answer must contain at least 2 sentences related to each other and to the specified career.

2 points - Answer must mention a career or career field (family of occupations).

Answer must relate information from item 2 to the career mentioned.

Answer must contain at least 1 sentence related to the specified career.

point - Answer must relate information from item 2 to some career title or career field (family of occupations).

Note: Score items 4 and 5 (as a group) for each student.

4. Value: 1 point each correct response

Each answer must specify a career, any occupation; job title, or family of occupations.

Also acceptable: "work at a gas station," "computer work," or equivalent

The answers need not be related to any previous answers or to each other.

Total possible points: 3

#### 5. Career 1

No points are given for responding to the "Career 1" blank, but the response must correspond (either by words or numbers) to one of the answers given in item 4.

If it does not correspond or is left blank, then score the entire item zero. It the "Career 1" blank is filled in properly, score rest of item as follows:

Responses for (1), (2), and (3):

Value: 1 point each correct response

Each response <u>must be a personal characteristic of the individual</u> and not a feature or characteristic of the job or career. And, responses <u>must</u> be reasonably related to the career identified in "Career 1" blank.

Subtotal possible points: 3

Lareer 2 - Score in same manner as above

Subtotal possible points: 3

Career 3 - Score in same manner as above

Subtotal possible points:

Total possible points for item 5: 9

Note: Score items 6 and 7 (as a group) for each student.

6. Value: I point each correct response

Response may be a career, job or occupational title, family of occupations, or a phrase related to the world of work, e.g. "working in an office."

Total possible points:, 2

(Section |) Career 1"

No credit is given for responding to "Career 1" blank, but there must be a response and it must correspond (either by words or numbers) to one of the answers given in item 6.

If there is no response in the "Career 1" blank, or if it does not correspond to one of the answers given in item 6, then score this section of the item zero and proceed to the next section.

If the response is satisfactory in the "Career 1" blank, then score responses 1 and 2 as follows:

(1) Give credit if the response refers to a personal trait or characteristic which would be in conflict with the career mentioned. For example:

(Dress designer) - "I have a poor imagination."

(2) Give credit if the response is worded in such a manner as to infer a personal trait or characteristic.

(Factory worker) - "I don't want to be a factory worker because they have short lunch periods."

The inference is that the student's physical and mental make-up is such that he cannot eat rapidly or stand the pressure of having to do so.

If the inference comes easily to the scorer, grant credit for the response; if not, deny credit.

(3) Do not give credit for a response which focuses on the job and shows no relation to the student's personal traits or characteristics. For example:

"It would be dull and boring." or "My uncle has a job like this."

(4) For credit, the response must relate directly to a personal trait or aracteristic or by easy inference suggest conflict to the individual's make-up and be inharmonious with the career mentioned.

Total possible points: 3

(Section 2) - "Career 2" - Score in same manner as above

Total possible points: 3

Total possible points for item 7: 6.

Note: Score item 8 separately for each student.

8. Value: 1 point each correct response

Total possible points: 3

Response must indicate if it is referring to work or to play.

For example, the responses: (a) "you might get hurt" or (b) "it, is hard" do not indicate whether the subject is work or play. Score such responses zero.

Also, if student says: "work is hard" on one line and "play is easy" on the second line, consider this as one response (not two).

# Note: Score items 9A and 9B (as a group) for each student.

9.A. Value: 1 point each correct response

Total possible points: 3

B. Value: 1 point each correct response

Total possible points:

Note: /Score item 10 separately for each student.

10. Value: 1 point each correct response

Total possible points: 3

Note: Score items 11, 12A, 12B, and 12C, (as a group) for each student.

11. Value: ·1 point each correct response

For full credit, each response must be different and distinct. For example, full credit may be given for: (1) work provides money, (2) work provides outlet for creativity (3) work provides self-satisfaction. Only 1 point may be given for closely related responses like (1) money for food (2) money for clothing, (3) money for shelter.

Total possible points:- 3

12.A. Value: 1 point for response to: "If I were a/an"

Value: 2-1-0

2 points - Answer clearly relates response #1 from item 11 to the career mentioned in: "If I were a/an"

1 point - Answer is vaguely related or related by implication and lack's clarity

0 points - No relation indicated

Total possible points: 3

12.B. Value: 1 point for response to: "If I were a/an"

Value: 2-1-0 points for remainder of item

2 points - Answer clearly relates response #2 from item 11 to the career mentioned in: "If I were a/an"

1 point - Answer is vaguely related or related by implication and lacks clarity

: 0/points No relation indicated

rotal possible points:

12/C. Score same as above (except response must relate to #3 in item 11)

.Total possible points: 3

Note: Score items 13 and 14 (as a group) for each student.

13. Nalue: 1 point each item

Total possible points: 3

14. Value: 1 point each item

Total possible points: 3

Check total possible points given item 13; a student cannot score higher on this item than he did on item 13.

Note: Score item 15 separately for each student.

15. Value: /1 point each correct response

Implications are permitted here. For if a student lists "football, baseball, and basketball," he is implying that he has talent in sports. However, he would receive only 1 point for the 3 responses since they are so close and seem to imply only one talent (sports). On the other hand, such responses as "playing the piano, dancing, and singing" are further apart and merit 1 point each.

Total possible points; 3

Note: Score item 16 separately for each student.

16. "Special or Personal Talent" blanks

No points are given for responses in these blanks, but the responses should duplicate or paraphrase those from item 15; they need not be in the same order. However, if the responses are omitted here, score the item by referring to item 15.

"Possible Careers" blanks

Value: 1 point each correct response

Each response must be generally related to the "Special or Personal Talent" mentioned.

Total possible points: 6

Note: Score items 17 and 18 (as a group) for each student.

17. Value: 1 point each correct response

This is scored either as 2 points or zero; there is no in-between. A student gets 1 point for correctly responding to the "Career 'Choice" and 1 point for "lack of talent."

Total possible points: 2

18. Value: 1 point each correct response

Response must relate to answer in item 17. Response must provide a logical reason or answer the question why.

Total possible points: 2 '

Note: Score item 19 separately for each student.

19. Value: 2-1-0 points

2 points - Response clearly relates differences in talents among individuals to the world of work.

1 point - Response shows some relationship (student has an idea), but answer needs further refinement.

0 points - Response fails to connect diversity of talents and the world of work.

Note: Score items 20, 21, and 22 for each student.

20. Value 1 point each correct response

"Career Title": Give 1 point for title of career, job, occupation or family of occupations. Give credit for this response even if student does not complete rest of item.

"Educational and/or training requirements": Give 1 point for each reasonable response.

Do not give individual credit for requirements which duplicate, repeat, or are very similar to each other. For example, responses, such as, "proper schooling," "proper training," and "diploma" are considered very similar. Allow 1 point (total) for these responses.

Do not give any points for the "requirements" unless the career title is mentioned in the preceding section (Career Title).

Total possible points: 4

21. Value: 1 point for each "requirement" response.

Review responses to item 20, then score the three requirements in item 21 at one time for each test paper.

Note credit given for item 20. If you have "lumped" similar requirements, be sure this is reflected in scoring item 21.

The response to requirement 1 in item 21 must match requirement 1 in item 20; requirement 2 (item 20) must match requirement 2 in item 21; requirement 3 (item 20) must match requirement 3 in item 21.

Total possible points: 3

22. Value: 1 point each correct response

Responses must be <u>reasonably related</u> to career title identified in item 20.

If career title is not given in item 20, score zero for this item.

Interpret response #4 (cost) in terms of student's response to #3 (learning time). Be generous in scoring #4; give student benefit of doubt.

Total possible points: 4

# Note: Score item 23 separately for each student.

23. Value: 1 point each correct response

Career need not be specified here nor is it necessary to refer to any previous item (although it may refer to item 20).

Give credit for each response that makes sense or seems reasonable for keeping up-to-date in a career. However, do not give credit for disjointed or fuzzy thinking. For example, the response, "newspapers" gets no credit because it is incomplete, vague, and has no real bearing on specific occupational work.

Total possible points: 3

Note: Score items 24 and 25 (as a group) for each student.

24. Value: 1 point each correct response

24. cont.

out, score entire item zero.

Total possible points: 6

25. Value: 1 point each correct response for how to use a tool

No credit is given for filling in the blanks "Tool 1" and "Tool 2" since credit was awarded in the previous item.

But, no credit for "how to use" the tool can be given  $\underline{unless}$  the name of the tool is given.

The names of "Tool 1" and "Tool 2" must be mentioned in the list of tools in item 24; if NOT, score entire item zero.

The response, "how to use" must emphasize how; no credit is given for what it is used for or why it is used.

Total possible points: 2